



*Opportunities for Data Exchange*

# Researchers and Funders: Tales of Challenges and Change

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## BACKGROUND



*Opportunities for Data Exchange*

# BACKGROUND

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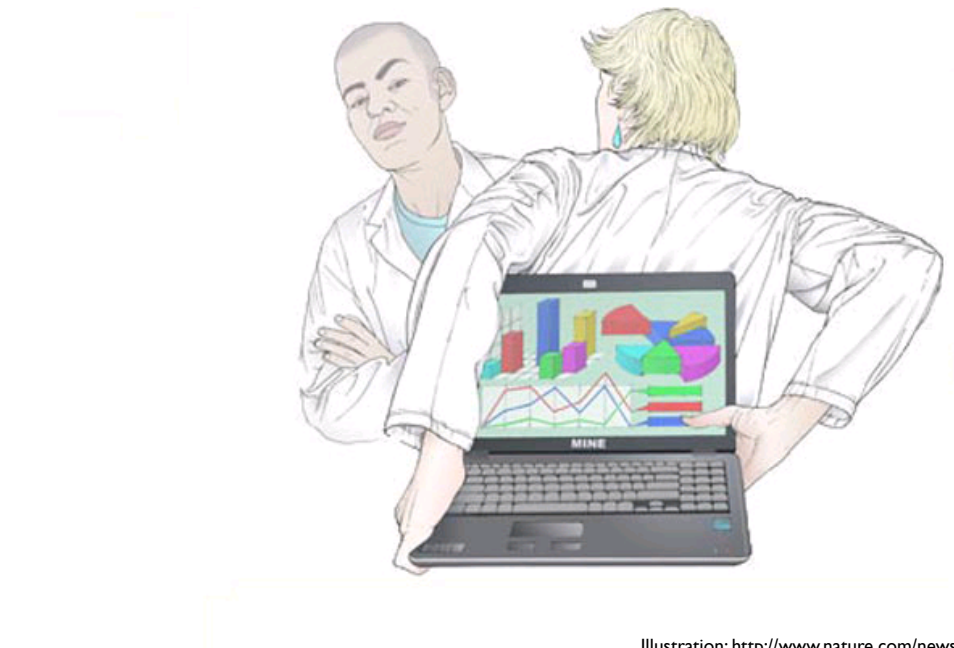


Illustration: <http://www.nature.com/news/specials/datasharing/index.htm>



## ODE's Task

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- Take a **fresh look** at and identify barriers and drivers to data sharing
  - by interviewing distinguished representatives of all stakeholder groups
  - by collecting "success stories", "near misses" and "**honourable failures**" in data sharing, re-use and preservation.



# Barriers and Drivers

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## To Unravel Complexity

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- Extract meaningful, to the point information and actionable advice
- **Short paper per group of stakeholders**
  - **Why should you care?**
  - **What are our credentials?**
  - **What has ODE learned from others (about you)**
  - **What you can do**
- **Advisable actions with highest impact only**
  - **For more: read full reports**



# One of ODE's TALES

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**Karin Lochte**

**Vice-President Helmholtz Assoc., member German Science Council, EC-expert group on Research Infrastructures, ...**

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Built a data base for **deep sea biological and geochemical data** from a variety of sources.

**1775** published and unpublished **data sets were collected in two years**

Learned that one may need to **pay research groups to prepare their (existing) data** for incorporation in the ADEPD database



## Researchers: Why Care?

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- Successful examples, such as sharing data through the Worldwide Protein Data Bank, Pangaea and GenBank, ...
  - reminds also of major differences between disciplines
- ... sharing in your discipline may be worth the effort as well.
  - there are (many) more examples too difficult to be presented in half a paragraph: GalaxyZoo, World Met. Org.



# Others' Views for Researchers

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- ... publishers make it clear that their own infrastructure might not be sufficient to preserve data ...
  - researchers will not be aware of publishers' problems
- Data centres and libraries are willing to work with you on an incentive system ... they will offer advice and training on finding, preparing and managing data.
  - researchers will not expect libraries and data centers to be active players in the areas of incentives (evaluation) and data management



# What Researchers Can Do (I)

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- ... (everybody) depend(s) on your learned societies' or editorial boards' views ... formulate rules for appropriate data management plans and best practice for sharing.
  - regarding matters of "culture", societies and editorial boards are the most authoritative entities for researchers
    - more so than their institutions!
    - If policies run counter to culture, researchers will dodge



# What Researchers Can Do (2)

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- ... identify the best providers of data stewardship and work with them ... If capable providers do not exist ... you should communicate this to your research funders.
- researchers are the most credible source of guidance for data managing institutions as well as for funding agencies
- they must not expect to get good infrastructure without their own activity



## One of ODE's HYPOTHESES

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“Without the **infrastructure** that **helps scientists** manage their data in a **convenient and efficient way**, no culture of data sharing will evolve.”

**Stefan Winkler-Nees**  
**Deutsche Forschungs-Gemeinschaft (DFG)**



# Others' Views for Funders

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- Researchers have to balance priorities of data ... sharing with pressures such as publication of papers.
  - hint: It is you who hold researchers back from sharing by “data-blind” evaluation and funding criteria
- ... sustainable solution lies in the distributed data infrastructure ...
  - Don't even try to enforce simple solutions



# What Funders Can Do

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- ... promote explicit funding for data management in research grants ...
  - this is the most effective, plausible way to establish funding for data stewardship (perhaps not clear to every funder)
- ... data skills training in postgraduate courses.
  - we encountered the skills/training question ever so often. Postgraduate education is the most obvious first step



# Conclusion

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- From a rich and complex source of information on data sharing
  - We extracted and prioritized **challenges** to researchers and funders (why care and what you can do)
  - We transferred evidence and enablers of **change** between disciplines and stakeholder domains



# ODE Results

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- <http://www.ode-project.eu/ode-outputs>
- In particular:
  - Briefing sheets
  - Ten Tales
  - All interviews in “Baseline Report on Drivers and Barriers in Data Sharing”

